Performance Data Sheet

AKA9451ZXC

General Information

Model	AKA9451ZXC	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	7410	6690	5940	5170	4400	3620	2840
	Watts	740	777	815	851	881	903	914
	Amps	3.60	3.96	4.20	4.34	4.42	4.48	4.54
	Lb/h	130	122	114	104	94.2	82.7	69.6
25	Btu/h	8280	7490	6690	5860	5010	4160	3300
	Watts	758	800	844	887	925	955	974
	Amps	3.65	4.03	4.29	4.45	4.56	4.65	4.74
	Lb/h	144	137	128	119	108	95.4	81.2
30	Btu/h	9310	8460	7580	6670	5740	4800	3840
	Watts	772	820	870	920	965	1000	1030
	Amps	3.69	4.10	4.38	4.57	4.71	4.83	4.96
	Lb/h	162	155	146	136	124	111	95.0
35	Btu/h	10500	9560	8590	7590	6560	5510	4440
	Watts	782	837	894	950	1000	1050	1080
	Amps	3.72	4.15	4.46	4.68	4.85	5.01	5.18
	Lb/h	183	175	166	155	142	127	110
40	Btu/h	11800	10800	9680	8560	7420	6250	5060
	Watts	790	850	914	978	1040	1090	1140
	Amps	3.73	4.18	4.52	4.78	4.99	5.19	5.40
	Lb/h	207	198	188	176	162	145	126
45	Btu/h	13200	12000	10800	9580	8300	7000	5670
	Watts	795	862	932	1000	1070	1130	1190
	Amps	3.71	4.20	4.57	4.86	5.11	5.35	5.61
	Lb/h	232	223	211	198	182	164	142
50	Btu/h	14600	13300	12000	10600	9170	7710	6230
	Watts	799	872	949	1030	1100	1170	1240
	Amps	3.66	4.17	4.58	4.92	5.21	5.49	5.80
	Lb/h	258	248	235	220	202	181	158

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.105277E+04	8.430893E+02	-8.163146E+00	2.620503E+02
C2	-1.240968E+02	2.871038E+00	1.759555E-02	-6.367007E+00

C3	-4.590701E+01	-1.013222E+01	2.854855E-01	-2.543476E+00
C4	9.231796E+00	-1.287726E-01	4.836803E-05	1.882572E-01
C5	1.104866E+00	1.973542E-02	-4.837810E-04	7.219498E-02
C6	-2.193556E-01	1.341309E-01	-2.195671E-03	1.354440E-02
C7	-4.325610E-02	5.585631E-04	-9.224000E-06	-9.303012E-04
C8	-3.064954E-02	1.822171E-04	6.215392E-06	-5.387597E-04
C9	-4.834752E-03	5.180506E-04	3.262828E-06	-2.587044E-04
C10	7.883695E-04	-5.170161E-04	5.538999E-06	-4.115010E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AKA9451ZXC

General Information

Model	AKA9451ZXC	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	4440	3850	3300	2790	2320	1880	1480
	Watts	606	653	681	694	695	688	677
	Amps	3.73	3.74	3.75	3.77	3.78	3.77	3.74
	Lb/h	81.4	74.3	67.3	60.3	53.3	46.3	39.1
5	Btu/h	5100	4420	3800	3230	2720	2250	1830
	Watts	629	683	719	740	750	752	751
	Amps	3.78	3.83	3.88	3.93	3.96	3.98	3.96
	Lb/h	94.2	85.8	77.7	70.0	62.6	55.4	48.5
10	Btu/h	5820	5050	4350	3720	3150	2650	2210
	Watts	651	713	756	784	802	813	821
	Amps	3.83	3.91	4.00	4.08	4.15	4.18	4.18
	Lb/h	108	98.2	89.1	80.7	72.9	65.7	58.9
15	Btu/h	6600	5740	4960	4260	3640	3100	2630
	Watts	674	741	790	825	850	869	885
	Amps	3.87	4.00	4.12	4.23	4.33	4.39	4.40
	Lb/h	123	112	102	92.7	84.5	77.2	70.8
20	Btu/h	7460	6500	5640	4870	4200	3610	3120
	Watts	696	768	823	864	895	920	944
	Amps	3.90	4.07	4.23	4.38	4.50	4.58	4.62
	Lb/h	140	127	116	106	97.9	90.5	84.3
25	Btu/h	8420	7360	6410	5570	4830	4200	3670
	Watts	717	794	853	899	936	968	998
	Amps	3.92	4.13	4.33	4.51	4.66	4.77	4.83
	Lb/h	158	145	133	122	113	106	99.8
30	Btu/h	9470	8310	7270	6350	5550	4870	4300
	Watts	738	818	881	932	974	1010	1050
	Amps	3.92	4.18	4.42	4.64	4.82	4.95	5.03
	Lb/h	179	164	151	140	131	123	118

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.098045E+04	-9.381490E+02	5.308564E+00	1.443732E+02
C2	3.594446E+02	-4.365303E+00	-8.662284E-02	6.887536E+00

C3	-1.046354E+02	3.689937E+01	-4.949678E-02	-9.024458E-01
C4	1.458089E+00	1.219869E-01	-1.332771E-04	1.159140E-02
C5	-3.987081E+00	7.435367E-02	1.576040E-03	-8.008890E-02
C6	3.171687E-01	-2.718473E-01	5.040882E-04	1.929876E-03
C7	1.631441E-02	-1.704034E-04	-4.116075E-06	4.371152E-04
C8	-7.436254E-03	-1.543635E-03	1.650422E-06	1.919808E-05
C9	1.355450E-02	4.718805E-04	-4.594403E-06	3.123227E-04
C10	-3.887964E-04	6.478266E-04	-1.647947E-06	-6.100249E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature